



SIU 7398  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Kathleen C.M. Campbell

Art Unit 1614

Serial No. 10/694,448

Filed October 27, 2003

Confirmation No. 8896

For THERAPEUTIC USE OF METHIONINE TO REDUCE THE TOXICITY OF  
PLATINUM-CONTAINING ANTI-TUMOR COMPOUNDS

Examiner Rebecca Cook

February 28, 2005

COMMISSIONER FOR PATENTS

P.O. BOX 1450

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SIR:

**INFORMATION DISCLOSURE STATEMENT**

\* In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicant submits the attached PTO/SB/08A for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

Applicant submits herewith copies of the prosecution history for the analogous grandparent and great-grandparent applications.

03/02/2005 SSITHIR1 00000088 10694448

02 FC:1806

180.00 OP

Respectfully submitted,

Janet S. Hendrickson, Ph.D., Reg. No. 55,258

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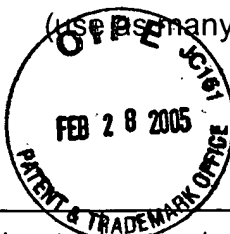
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PTO/SB/08A		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  		Application Number	10/694,448
		Filing Date	October 27, 2003
		Confirmation Number	8896
		First Named Inventor	Kathleen C.M. Campbell
		Group Art Unit	1614
		Examiner Name	Rebecca Cook
Sheet 1	of 2	Attorney Docket No.	SIU 7398

<b>OTHER ART - NON PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	78	Claims as filed in grandparent application Serial No. 09/057,065 filed on April 8, 1998 (pages 59-64).	
	79	Office action, Paper #4 issued June 3, 1999 in grandparent application Serial No. 09/057,065 filed on April 8, 1998.	
	80	Response to Restriction and Election of Species filed July 6, 1999 in grandparent application Serial No. 09/057,065 filed on April 8, 1998 (page 1 only).	
	81	Office action, Paper #7 issued October 14, 1999 in grandparent application Serial No. 09/057,065 filed on April 8, 1998.	
	82	Amendment A filed February 14, 2000 in grandparent application Serial No. 09/057,065 filed on April 8, 1998 (page 1 only).	
	83	Office action, Paper #10 issued June 14, 2000 in grandparent application Serial No. 09/057,065 filed on April 8, 1998.	
	84	Amendment B After Final Rejection filed August 11, 2000 in grandparent application Serial No. 09/057,065 filed on April 8, 1998 (pages 1-4 only).	
	85	Advisory action, Paper #12 issued September 11, 2000 in grandparent application Serial No. 09/057,065 filed on April 8, 1998.	
	86	Notice of Allowance, Paper #15 issued February 16, 2001 in grandparent application Serial No. 09/057,065 filed on April 8, 1998.	
	87	Claims as filed in great-grandparent application Serial No. 08/942,845 filed on October 2, 1997 (pages 52-59).	
	88	Office action, Paper #4 issued May 29, 1998 in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997.	

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	89	Response to Election of Species Requirement and Amendment A filed June 5, 1998 in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997 (pages 1-2 only).	
	90	Office action, Paper #6 issued July 1, 1998 in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997.	
	91	Amendment B, Response Under 37 C.F.R. 1.111 filed October 1, 1998 in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997 (pages 1-2 only).	
	92	Office action, Paper #10, issued January 1, 1999 in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997.	
	93	Amendment C filed March 8, 1999 in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997 (page 1 only).	
	94	Office action, Paper #13, issued April 9, 1999 in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997.	
	95	Preliminary Amendment filed July 6, 1999 in in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997 (pages 1-7 only).	
	96	Office action, Paper #17, issued August 6, 1999 in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997.	
	97	Amendment D filed February 4, 2000 in great-grandparent application Serial No. 08/942,845, filed on October 2, 1997 (pages 1-6 only).	
	98	Notice of Allowance, Paper #21 issued May 3, 2000 in great-grandparent application Serial No. 08/942,845 filed on October 2, 1997.	

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<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY		
		Number	Kind Code <sup>2</sup> (if known)				
	1	2,732,400		Weiss	01-24-1956		
	2	4,426,372		Borch	01-17-1984		
	3	5,002,755		Mitchell et al.	03-26-1991		
	4	5,292,773		Hirsch et al.	03-08-1994		
	5	5,430,064		Hirsch et al.	07-04-1995		
	6	5,466,678		Kawabata et al.	11-14-1995		
	7	6,177,434		Kopke et al.	01-23-2001		
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
	8	EP	06 200 04	A1	Fuji Kagaku Kogyo Kabushiki Kaisha	10-19-1994	

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	9	ALDEN, W. WESLEY et al., "Exacerbation of Cisplatin-Induced Nephrotoxicity by Methionine," <u>Chem.-Biol. Interactions</u> , 1984, 48, Pgs. 121-124		
	10	BASINGER, MARK A. et al., "Dithiocarbamate-Induced Biliary Platinum Excretion and the Control of cis-Platinum Nephrotoxicity," <u>Toxicology and Applied Pharmacology</u> , 1989, 97, Pgs. 279-288		
	11	BASINGER, MARK A. et al., "L-Methionine Antagonism of cis-Platinum Nephrotoxicity," <u>Toxicology and Applied Pharmacology</u> , 1990, 108, Pgs. 1-15		
	12	BASINGER, MARK A. et al., "L-Methionine Suppresses Pathological Sequelae of cis-Platinum in the Rat," <u>Fundamental and Applied Toxicology</u> , 1990, 14, Pgs. 568-577		
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	14	BOOGAARD, PIETER J. et al., "The Role of Methallothionein in the Reduction of Cisplatin-Induced Nephrotoxicity by Bi <sup>3+</sup> -Pretreatment in the Rat <i>In Vivo</i> and <i>In Vitro</i> , Are Antioxidant Properties of Methallothionein More Relevant than Platinum Binding?", <u>Biochemical Pharmacology</u> , 1991, Vol. 41, No. 3, Pgs. 369-375		
	15	BURCHENAL, JOSEPH H. et al., "Studies of Cross-Resistance, Synergistic Combinations and Blocking of Activity of Platinum Derivates," <u>Biochimie</u> , 1978, 60, No. 9, Pgs. 961-965		
	16	CAMPBELL, KATHLEEN C.M. et al., "A Review of Cisplatin Protective Agents Emphasizing Nephro- and Otoprotectants," <u>Proposed Review Article Not Yet Submitted for Publication, Including Additional Reference Lists</u>		
	17	CAMPBELL, KATHLEEN C.M. et al., "D-Methionine Provides Excellent Protection from Cisplatin Ototoxicity in the Rat," <u>Hearing Research</u> , 1996, 102, Pgs. 90-98		

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	18	CAMPBELL, KATHLEEN C.M. et al., "D-Methionine Provides Protection Against Cisplatin Damage the Rat Stria Vascularis: A Semi-Quantitative Analysis," <u>Abstracts of the Twenty-First Annual Mid-Winter Research Meeting of the Association for Research in Otolaryngology</u> , February 15-19, 1998, Abstract No. 537, Pgs. 135	
	19	CARDINI, G. et al., "La Radioprotezione Dei Cromosomi Delle Cellule Midollari Umane In Vitro," <u>Radiobiologia Radioterapia E Fisica Medica</u> , 1967, Vol. 22, No. 6, Pgs. 371-375	
	20	CARRITHERS, S. L. et al., "Methylation Of Radiation Protector Compounds By Thiol Methyltransferase," <u>FASEB</u> , 1991, Vol. 5, No. 4, Pg. A824	
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	22	CORREA, J. N. et al., "Radiosensitization and radioprotection on murine chondrosarcoma," <u>Radiation Research</u> , 1978, Vol. 74, No. 3, Pg. 517	
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	24	DEDON, PETER C. et al., "Characterization of the Reactions of Platinum Antitumor Agents with Biologic and Nonbiologic Sulfur-Containing Nucleophiles," <u>Biochemical Pharmacology</u> , 1987, Vol. 36, No. 12, Pgs. 1955-1964	
	25	DEEGAN, PATRICIA M. et al., "The nephrotoxicity, cytotoxicity and renal handling of a cisplatin-methionine complex in male Wistar rats," <u>Toxicology</u> , 1994, 89, Pgs. 1-14	
	26	DREWINKO, B. et al., "The Effect of <i>cis</i> -Diamminedichloroplatinum(II) on Cultured Human Lymphoma Cells and Its Therapeutic Implications," <u>Cancer Research</u> , December 1973, 33, Pgs. 3091-3095	
	27	DROBNIK, JAROSLAV et al., "Inactivation Of Bacteriophages With <i>Cis</i> -Platinum(II) Diamminedichloride," <u>Chem.-Biol. Interactions</u> , 1975, Pgs. 365-375	
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	29	FRIEDMAN, MENDEL et al., "The Utilization and Safety of Isomeric Sulfur-Containing Amino Acids in Mice," <u>J. Nutr.</u> , 1984, 114, Pgs. 2301-2310	
	30	GABAIZADEH, RAMIN et al., "Protection of Both Auditory Hair Cells and Auditory Neurons from Cisplatin Induced Damage," <u>Acta Otolaryngol</u> (Stockholm), 1997, 117, Pgs. 232-238	
	31	GANDARA, DAVID R. et al., "Cisplatin Chemoprotection and Rescue: Pharmacologic Modulation of Toxicity," <u>Seminars in Oncology</u> , February 1991, Vol. 18, No. 1, Suppl. 3, Pgs. 49-55	
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	33	GESSLER, N. et al., "Antiradiation effects of S-methylmethionine (Vitamin U)," <u>Prikl. Biokhim. Mikrobiol.</u> , 1996, Vol. 32, No. 6, Pgs. 666-668	
	34	GLOVER, DONNA et al., "Clinical Trials of WR-2721 and Cis-Platinum," <u>I. J. Radiation Oncology, Biology, Physics</u> , May 1989, Vol. 16, No. 5, Pgs. 1201-1204	
	35	HANNERMANN, JORG et al., "Cisplatin-Induced Lipid Peroxidation and Decrease of Gluconeogenesis in Rat Kidney Cortex: Different Effects of Antioxidants and Radical Scavengers," <u>Toxicology</u> , 1988, 51, Pgs. 119-132	
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	37	INFANTE, G. A. et al., "Chemical radioprotection on biological important compounds," <u>Radiation Research</u> , 1976, Vol. 67, No. 3, Pg. 637	
	38	JONES, MARK M. et al., "Coadministration of Dimethyl Sulfoxide Reduces Cisplatin Nephrotoxicity," <u>Anticancer Research</u> , 1991, 11, Pgs. 1939-1942	
	39	JONES, MARK M. et al., "Control of Nephrotoxicity in the Rat during Repeated cis-Platinum Treatments," <u>Journal of Applied Toxicology</u> , 1989, Vol. 9(4), Pgs. 229-233	
	40	JONES, MARK M. et al., "Control of the Nephrotoxicity of Cisplatin by Clinically Used Sulfur-Containing Compounds," <u>Fundamental and Applied Toxicology</u> , 1992, 18, Pgs. 181-188	
	41	JONES, MARK M. et al., "Inhibition of cis-diamminedichloroplatinum (II)-induced renal toxicity in the rat," <u>Cancer Chemotherapy and Pharmacology</u> , 1986, 17, Pgs. 38-42	

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	42	JONES, MARK M. et al., "Relative effectiveness of some compounds for the control of cisplatin-induced nephrotoxicity," <u>Toxicology</u> , 1991, 68: Pgs. 227-247	
	43	JONES, MARK M. et al., "Thioether Suppression of Cisplatin Nephrotoxicity in the Rat," <u>Anticancer Research</u> , 1991, 11, Pgs. 449-454	
	44	JONES, MARK M. et al., "Thiol and Thioether Suppression of Cis-Platinum-Induced Nephrotoxicity in Rats Bearing the Walker 256 Carcinosarcoma," <u>Anticancer Research</u> , 1989, 9: 1937-1942	
	45	KIDO, K., "The influence of methylmethionine sulfonium chloride (MMS) on survivors of mice after X-ray irradiation, especially the consideration of the drug effect for the degeneration of intestinal mucosa," <u>Kansai Ika Daigaku Zasshi</u> , 1973, Vol. 25, No. 1, Pgs. 104-107	
	46	KIES, CONSTANCE et al., "Comparative Value of L-, DL-, and D-Methionine Supplementation of an Oat-based Diet for Humans," <u>J. Nutr.</u> , 1975, 105, Pgs. 809-814	
	47	KOPKE, RICHARD D. et al., "Use of Organotypic Cultures of Corti's Organ to Study the Protective Effects of Antioxidant Molecules on Cisplatin-Induced Damage of Auditory Hair Cells," <u>The American Journal of Otolaryngology</u> , 1997, 18, 559-571	
	48	KORVER, K. D. et al., "Round window application of D-methionine provides cisplatin otoprotection," <u>Abstracts of the Twenty-First Annual Mid-Winter Research Meeting of the Association for Research in Otolaryngology</u> , February 15-19, 1998, Abstract No. 536, Pg. 135	
	49	KOVACS, V. et al., "Study of the Radiation Protection Effect of Selenium-Methionine by Determining the Paramagnetic Properties of Liver Tissues of Mice," 1988, <u>Acta Physica Hungarica</u> , Vol. 64, No. 1-3, Pgs. 321-326	
	50	MEKHTIEV, M. A. et al., "Radioprotective effect during the separate and combined use of DL-methionine and thyroxine," <u>Database Chemabs Chemical Abstracts Service</u> , Abstract No. 76:54431, 1970 (see also <i>Tr. Inst. Fiziol., Akad. Nauk Azerb. SSR</i> , Vol. 11, pp. 83-100, 1970)	
	51	MELVIK, JAN EGIL et al., "Reduction of cis-Dichlorodiammineplatinum-Induced Cell Inactivation by Methionine," <u>Inorganica Chimica Acta</u> , 1987, 137, Pgs. 115-118	
	52	MERRIN, CLAUDE, "A New Method To Prevent Toxicity With High Doses Of Cis Diammine Platinum (Therapeutic Efficacy In Previously Treated Widespread And Recurrent Testicular Tumors)," <u>Proc. Am. Assoc. Cancer Res.</u> , 1976	

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				Group Art Unit	not yet assigned
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